

Please provide the following information, and submit to the NOAA DM Plan Repository.

Reference to Master DM Plan (if applicable)

As stated in Section IV, Requirement 1.3, DM Plans may be hierarchical. If this DM Plan inherits provisions from a higher-level DM Plan already submitted to the Repository, then this more-specific Plan only needs to provide information that differs from what was provided in the Master DM Plan.

URL of higher-level DM Plan (if any) as submitted to DM Plan Repository:

1. General Description of Data to be Managed**1.1. Name of the Data, data collection Project, or data-producing Program:**

NOAA Raster Navigational Charts (RNC)

1.2. Summary description of the data:

NOAA, National Ocean Service, Office of Coast Survey, Marine Chart Division is responsible to build and maintain a suite of more than 1000 nautical charts that are used by commercial and recreational mariners to navigate the United States and U. S. territory waters safely. A Nautical Chart is a graphic portrayal of the marine environment. They are used to lay out courses and navigate ships by the shortest and most economically safe route. They can also serve as base maps for resource management and shoreline development planning by state and local government. Charts depict the location of the shoreline, minimum water depths, aids to navigation, hazards to navigation, the nature and form of the coast, water depths, the general character and configuration of the sea bottom, the rise and fall of the tides, protected areas, and the characteristics of the Earth's magnetism. The suite of charts is compiled and maintained with data provided by federal, state, and private partners such as the National Ocean Service elements, United States Coast Guard, United States Army Corps of Engineers, United States Power Squadron Auxiliary, Port Authorities. The charts are currently available as Lithographically printed paper charts, Electronic Raster Nautical Charts (RNCs), up-to-date paper charts (printed with print on demand technology), and are now offered as Digital Vector Electronic Nautical Charts (ENC). The NOAA RNCs are electronic images of the NOAA paper charts. The NOAA RNCs were productized with a successful Cooperative Research and Development Agreement (CRADA) with private sector partner BSB Electronic Charts, a subsidiary of Maptech, Inc. Andover, Massachusetts. As of November 1, 2005 the NOAA RNC's are available for free download via the NOAA website.

1.3. Is this a one-time data collection, or an ongoing series of measurements?

Ongoing series of measurements

1.4. Actual or planned temporal coverage of the data:

1995-01-01 to Present

1.5. Actual or planned geographic coverage of the data:

W: -180, E: 180, N: 81.9, S: 14.4

1.6. Type(s) of data:

(e.g., digital numeric data, imagery, photographs, video, audio, database, tabular data, etc.)
map

1.7. Data collection method(s):

(e.g., satellite, airplane, unmanned aerial system, radar, weather station, moored buoy, research vessel, autonomous underwater vehicle, animal tagging, manual surveys, enforcement activities, numerical model, etc.)

1.8. If data are from a NOAA Observing System of Record, indicate name of system:**1.8.1. If data are from another observing system, please specify:****2. Point of Contact for this Data Management Plan (author or maintainer)****2.1. Name:**

Kurt Nelson

2.2. Title:

Metadata Contact

2.3. Affiliation or facility:

Office of Coast Survey

2.4. E-mail address:

kurt.a.nelson@noaa.gov

2.5. Phone number:

301-713-2645 x142

3. Responsible Party for Data Management

Program Managers, or their designee, shall be responsible for assuring the proper management of the data produced by their Program. Please indicate the responsible party below.

3.1. Name:

Kurt Nelson

3.2. Title:

Data Steward

4. Resources

Programs must identify resources within their own budget for managing the data they produce.

4.1. Have resources for management of these data been identified?

4.2. Approximate percentage of the budget for these data devoted to data management (specify percentage or "unknown"):

5. Data Lineage and Quality

NOAA has issued Information Quality Guidelines for ensuring and maximizing the quality, objectivity, utility, and integrity of information which it disseminates.

5.1. Processing workflow of the data from collection or acquisition to making it publicly accessible

(describe or provide URL of description):

Process Steps:

- The charts are cartographic products derived as specified in the NOAA Nautical Chart Manual. The suite of charts is compiled and maintained with data provided by federal, state, and private partners such as National Ocean Service elements, United States Coast Guard, United States Army Corps of Engineers, United States Power Squadron Auxiliary, and Port Authorities. These data are constantly being collected and the charts are updated through these sources. The Marine Chart Division evaluates source data, catalogues source data, extracts quality data which are navigationally significant to be applied to the charts. Charts are available in multiple mediums, lithographically printed charts, Raster charts on CDs with weekly updates for navigationally critical information, POD charts that are updated for navigationally critical information on a weekly basis.

5.1.1. If data at different stages of the workflow, or products derived from these data, are subject to a separate data management plan, provide reference to other plan:

5.2. Quality control procedures employed (describe or provide URL of description):

6. Data Documentation

The EDMC Data Documentation Procedural Directive requires that NOAA data be well documented, specifies the use of ISO 19115 and related standards for documentation of new data, and provides links to resources and tools for metadata creation and validation.

6.1. Does metadata comply with EDMC Data Documentation directive?

No

6.1.1. If metadata are non-existent or non-compliant, please explain:

Missing/invalid information:

- 1.7. Data collection method(s)
- 4.1. Have resources for management of these data been identified?
- 4.2. Approximate percentage of the budget for these data devoted to data

management

- 5.2. Quality control procedures employed
- 7.1. Do these data comply with the Data Access directive?
 - 7.1.1. If data are not available or has limitations, has a Waiver been filed?
 - 7.1.2. If there are limitations to data access, describe how data are protected
- 7.3. Data access methods or services offered
- 7.4. Approximate delay between data collection and dissemination
- 8.1. Actual or planned long-term data archive location
- 8.3. Approximate delay between data collection and submission to an archive facility
- 8.4. How will the data be protected from accidental or malicious modification or deletion prior to receipt by the archive?

6.2. Name of organization or facility providing metadata hosting:

NMFS Office of Science and Technology

6.2.1. If service is needed for metadata hosting, please indicate:

6.3. URL of metadata folder or data catalog, if known:

<https://inport.nmfs.noaa.gov/inport/item/39966>

6.4. Process for producing and maintaining metadata

(describe or provide URL of description):

Metadata produced and maintained in accordance with the NMFS Data Documentation Procedural Directive: <http://www.nmfs.noaa.gov/op/pds/documents/04/111/04-111-01.pdf>

7. Data Access

NAO 212-15 states that access to environmental data may only be restricted when distribution is explicitly limited by law, regulation, policy (such as those applicable to personally identifiable information or protected critical infrastructure information or proprietary trade information) or by security requirements. The EDMC Data Access Procedural Directive contains specific guidance, recommends the use of open-standard, interoperable, non-proprietary web services, provides information about resources and tools to enable data access, and includes a Waiver to be submitted to justify any approach other than full, unrestricted public access.

7.1. Do these data comply with the Data Access directive?

7.1.1. If the data are not to be made available to the public at all, or with limitations, has a Waiver (Appendix A of Data Access directive) been filed?

7.1.2. If there are limitations to public data access, describe how data are protected from unauthorized access or disclosure:

7.2. Name of organization of facility providing data access:

Office of Coast Survey

7.2.1. If data hosting service is needed, please indicate:

7.2.2. URL of data access service, if known:

<http://www.charts.noaa.gov/InteractiveCatalog/nrnc.shtml>

<http://www.nauticalcharts.noaa.gov/RNCOnline/rnconline.html>

7.3. Data access methods or services offered:

7.4. Approximate delay between data collection and dissemination:

7.4.1. If delay is longer than latency of automated processing, indicate under what authority data access is delayed:

8. Data Preservation and Protection

The NOAA Procedure for Scientific Records Appraisal and Archive Approval describes how to identify, appraise and decide what scientific records are to be preserved in a NOAA archive.

8.1. Actual or planned long-term data archive location:

(Specify NCEI-MD, NCEI-CO, NCEI-NC, NCEI-MS, World Data Center (WDC) facility, Other, To Be Determined, Unable to Archive, or No Archiving Intended)

8.1.1. If World Data Center or Other, specify:

8.1.2. If To Be Determined, Unable to Archive or No Archiving Intended, explain:

8.2. Data storage facility prior to being sent to an archive facility (if any):

Office of Coast Survey - Silver Spring, MD

8.3. Approximate delay between data collection and submission to an archive facility:

8.4. How will the data be protected from accidental or malicious modification or deletion prior to receipt by the archive?

Discuss data back-up, disaster recovery/contingency planning, and off-site data storage relevant to the data collection

9. Additional Line Office or Staff Office Questions

Line and Staff Offices may extend this template by inserting additional questions in this section.